

HANDY RELEASE 0.9

4 July 1989

CONFIDENTIAL and PROPRIETARY

This document describes the V 0.9 release of the Handy development environment. It includes these sections:

- MUTE the Music
- Other 6502: Changes
- HandyAsm 1.08
- What You Must Do To Start Using This Release

MUTE the Music

If you would like to mute the playing of music without pausing the song, define MUTE_USER and then use the new MUTE music macro.

The MUTE macro acts as a toggle. You can detect whether music is currently muted by examining the Mute_flag field. If the field is non-zero, the music is currently muted.

The INITHMUSIC call causes music to become non-muted.

Other 6502: Changes

The GETSWITCH and GETJOY macros no longer perform the AUTO_TIMEOUT reset functions. This logic has been moved to the TIMEOUT macro defined in display.src. Also, the SWITCHES-reading logic has been corrected to test explicitly for the PAUSE_SWITCH bit.

The old cart.src didn't get distributed just before CES. Now it's distributed. An invalid LDA IODAT now reads LDA IODAT_RAM.

The auto-timeout constant is adjusted to cause timeout to happen in 1 hour rather than 1.5 hours (when external power is present).

END_ZPAGE macro now warns you if your allocations go out of zero-page.

HandyAsm 1.08 Macros

Macros now can refer to their arguments by value as well as by name. The format for reference to argument by value is ?%FN where %F stands for a format argument (%d equals decimal, %x for hexadecimal, %c for character); the N stands for the usual macro argument number.

For example, consider the new macro ECHO_VALUE (defined in sys.mac):

```
#MACRO ECHO_VALUE  
    .ECHO "Value of ?0 is ?%d0 ($?%x0)  
#ENDMACRO
```